Amendments to the Specification:

1. On page 40, please replace the paragraph beginning at line 9 with the following paragraph:

Figure 9. Multiple overlapping peptides (SEQ ID NOs: 6-18) (MOP) from the cat allergen Fel d I. The three sequences within the box were insoluble in aqueous solution and as a result were excluded from the MOP preparation for clinical use.

2. On page 50, please replace the all of the text on page 50 with the following text:

Institutes of Health. The NCBI web site, from which access to the database may be sought, www.ncbi.nlm.nih.gov/. The allergens may be used as described above in order to identify MHC-restricted peptides capable of inducing LPR in individuals who possess a particular MHC molecule.

Allergen sequences and database accession numbers (NCBI Entrez accession numbers):

House dust mite

Dermatophagoides pteronyssinus

Der p 1 (SEQ ID NO: 19)

MKIVLAIASLLALSAVYARPSSIKTFEEYKKAFNKSYATFEDEEAAR KNFLESVKYVQSNGGAINHLSDLSLDEFKNRFLMSAEAFEHLKTQF DLNAETNACSINGNAPAEIDĹRQMRTVTPIRMQGGCGSCWAFSGV AATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHN GVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPNVNKIREALA QTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSN AQGVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

Der p 2 (SEQ ID NO: 20)

MMYKILCLSLLVAAVARDQVDVKDCANHEIKKVLVPGCHGSEPCII HRGKPFQLEAVFEANQNTKTAKIEIKASIDGLEVDVPGIDPNACHY MKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLAC AIATHAKIRD

Der p 3 (SEQ ID NO: 21)

MIIYNILIVLLLAINTLANPILPASPNATIVGGEKALAGECPYQISLQS SSHFCGGTILDEYWILTAAHCVAGQTASKLSIRYNSLKHSLGGEKIS

3. On page 51, please replace all of the text on page 51 with the following text:

VAKIFAHEKYDSYQIDNDIALIKLKSPMKLNQKNAKAVGLPAKGSD

VKVGDQVRVSGWGYLEEGSYSLPSELRRVDIAVVSRKECNELYSKA NAEVTDNMICGGDVANGGKDSCQGDSGGPVVDVKNNQVVGIVSW GYGCARKGYPGVYTRVGNFIDWIESKRSQ

Der p 4 (SEQ ID NO: 22)

KYXNPHFIGXRSVITXLME

Der p 5 (SEQ ID NO: 23)

MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDFLLMERIHEQIKKGE LALFYLQEQINHFEEKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRL MQRKDLDIFEQYNLEMAKKSGDILERDLKKEEARVKKIEV

Der p 6 (SEQ ID NO: 24)

AIGXQPAAEAEAPFQISLMK

Der p 7 (SEQ ID NO: 25)

MMKLLLIAAAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFD PMKVPDHSDKFERHIGIIDLKGELDMRNIQVRGLKQMKRVGDANV KSEDGVVKAHLLVGVHDDVVSMEYDLAYKLGDLHPNTHVISDIQD FVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFAVLSD VLTAIFQDTVRAEMTKVLAPAFKKELERNNQ

Der p9 (SEQ ID NO: 26)

IVGGSNASPGDAVYQIAL

Dermatophagoides farinae

Der f 1 (SEQ ID NO: 27)

MKFVLAIASLLVLTVYARPASIKTFEFKKAFNKNYATVEEEEVARK

4. On page 52, please replace all of the text on page 52 with the following text:

NFLESLKYVEANKGAINHLSDLSLDEFKNRYLMSAEAFEQLKTQFD LNAETSACRINSVNVPSELDLRSLRTVTPIRMQGGCGSCWAFSGVA ATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNG VVEERSYPYVAREQRCRRPNSQHYGISNYCQIYPPDVKQIREALTQT HTAIAVIIGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQ GDDYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEQYPYVVIM

Der f 2 (SEQ ID NO: 28)

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCII HRGKPFTLEALFDANQNTKTAKIEIKASLDGLEIDVPGIDTNACHFM KCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACAIA THGKIRD

Der f 3 (SEQ ID NO: 29)

MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSS SHFCGGSILDEYWILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQV AEIYQHENYDSMTIDNDVALIKLKTPMTLDQTNAKPVPLPAQGSDV KVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAG ADVSENMICGGDVANGGVDSCQGDSGGPVVDVATKQIVGIVSWGY GCARKGYPGVYTRVGNFVDWIESKRSQ

Der f 4 (SEQ ID NO: 30)

AVGGQDADLAEAPFQISLLK

Der f 7 (SEQ ID NO: 31)

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDP MKVPDHADKFERHVGIVDFKGELAMRNIEARGLKQMKRQGDANV KGEEGIVKAHLLIGVHDDIVSMEYDLAYKLGDLHPTTHVISDIQDFV VALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFGVLSDVL TAIFQDTVRKEMTKVLAPAFKRELEKN

5. On page 53, please replace all of the text on page 53 with the following text:

Additional mite allergen sequences (NCBI entrez accession):

1170095; 1359436; 2440053; 666007; 487661; 1545803; 84702; 84699; 625532; 404370; 1091577; 1460058; 7413; 9072; 387592.

Cat

Felis sequences

1082946 Fel dI chain 2 precursor – cat (SEQ ID NO: 32)

MRGALLVLALLVTQALGVKMAETCPIFYDVFFAVANGNELLLDLS LTKVNATEPERTAMKKIQDCYVENGLISRVLDGLVMTTISSSKDCM GEAVQNTVEDLKLNTLGR

1082945 Fel dI chain 1 short form – cat (SEQ ID NO: 33)

MLDAALPPCPTVAATADCEICPAVKRDVDLFLTGTPDEYVEQVAQ YKALPVVLENARILKNCVDAKMTEEDKENALSLLDKIYTSPLC 1082944 Fel dI chain 1 long form precursor – cat (SEQ ID NO: 34) MKGARVLVLLWAALLLIWGGNCEICPAVKRDVDLFLTGTPDEYVE QVAQYKALPVVLENARILKNCVDAKMTEEDKENALSLLDKIYTSPL C

Additional Felis sequences (NCBI entrez accession):

539716; 539715; 423193; 423192; 423191; 423190; 1364213; 1364212; 395407; 163827; 163823; 163825; 1169665; 232086; 1169666.

Latex

Hevea sequences:

6. On page 54, please replace all of the text on page 54 with the following text:

Hev b 1 (SEQ ID NO: 35)

MAEDEDNQQGQGEGLKYLGFVQDAATYAVTTFSNVYLFAKDKSG PLQPGVDIIEGPVKNVAVPLYNRFSYIPNGALKFVDSTVVASVTIIDR SLPPIVKDASIQVVSAIRAAPEAARSLASSLPGQTKILAKVFYGEN Hev b 3 (SEQ ID NO: 36)

MAEEVEEERLKYLDFVRAAGVYAVDSFSTLYLYAKDISGPLKPGV DTIENVVKTVVTPVYYIPLEAVKFVDKTVDVSVTSLDGVVPPVIKQ VSAQTYSVAQDAPRIVLDVASSVFNTGVQEGAKALYANLEPKAEQ YAVITWRALNKLPLVPQVANVVVPTAVYFSEKYNDVVRGTTEQGY RVSSYLPLLPTEKITKVFGDEAS

Additional Hevea sequences (NCBI entrez accession):

3319923; 3319921; 3087805; 1493836; 1480457; 1223884; 3452147;

3451147; 1916805; 232267; 123335; 2501578; 3319662; 3288200;

1942537; 2392631; 2392630; 1421554; 1311006; 494093; 3183706; 3172534;

283243; 1170248; 1708278; 1706547; 464775; 266892;

231586; 123337; 116359; 123062; 2213877; 542013; 2144920; 1070656;

2129914; 2129913; 2129912; 100135; 82026; 1076559; 82028; 82027;

282933; 280399; 100138; 1086972; 108697; 1086976; 1086978;

1086978; 1086976; 1086974; 1086972; 913758; 913757; 913756;

234388; 1092500; 228691; 1177405; 18839; 18837; 18835; 18833;

18831; 1209317; 1184668; 168217; 168215; 168213; 168211; 168209; 348137.

Rye grass

Lolium sequences:

126385 Lol p 1 (SEQ ID NO: 37)

7. On page 55, please replace all of the text on page 55 with the following text:

MASSSSVLLVVALFAVFLGSAHGIAKVPPGPNITAEYGDKWLDAKS
TWYGKPTGAGPKDNGGACGYKNVDKAPFNGMTGCGNTPIFKDGR
GCGSCFEIKCTKPESCSGEAVTVTITDDNEEPIAPYHFDLSGHAFGS
MAKKGEEQNVRSAGELELQFRRVKCKYPDDTKPTFHVEKASNPNY
LAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDK
LTGPFTVRYTTEGGTKSEFEDVIPEGWKADTSYSAK

126386 Lol p 2a (SEQ ID NO: 38)

AAPVEFTVEKGSDEKNLALSIKYNKEGDSMAEVELKEHGSNEWLA LKKNGDGVWEIKSDKPLKGPFNFRFVSEKGMRNVFDDVVPADFKV GTTYKPE

126387 Lol p 3 (SEQ ID NO: 39)

TKVDLTVEKGSDAKTLVLNIKYTRPGDTLAEVELRQHGSEEWEPM TKKGNLWEVKSAKPLTGPMNFRFLSKGGMKNVFDEVIPTAFTVGK TYTPEYN

2498581 Lol p 5a (SEQ ID NO: 40)

MAVQKYTVALFLRRGPRGGPGRSYAADAGYTPAAAATPATPAATP
AGGWREGDDRRAEAAGGRQRLASRQPWPPLPTPLRRTSSRSSRPPS
PSPPRASSPTSAAKAPGLIPKLDTAYDVAYKAAEAHPRGQVRRLRH
CPHRSLRVIAGALEVHAVKPATEEVLAAKIPTGELQIVDKIDAAFKI
AATAANAAPTNDKFTVFESAFNKALNECTGGAMRPTSSSPPSRPRS
SRPTPPPSPAAPEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATA
AATVATAAATAAAVLPPPLLVVQSLISLLIYY

2498582 Lol p 5b (SEQ ID NO: 41)

MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPATPAAPATA ATPATPATPAAVPSGKATTEEQKLIEKINAGFKAAVAAAAVVP PADKYKTFVETFGTATNKAFVEGLASGYADQSKNQLTSKLDAALK

8. On page 56, please replace all of the text on page 56 with the following text:

LAYEAAQGATPEAKYDAYVATLTEALRVIAGTLEVHAVKPAAEEV

KVGAIPAAEVQLIDKVDAAYRTAATAANAAPANDKFTVFENTFNN

AIKVSLGAAYDSYKFIPTLVAAVKQAYAAKQATAPEVKYTVSETAL KKAVTAMSEAEKEATPAAAATATPTPAAATATATPAAAYATATPA AATATATPAAATATPAAAGGYKV

455288 Lol p isoform 9 (SEQ ID NO: 42)

MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPAAPATA
ATPATPATPAAPATAAVPSGKATTEEQKLIEKINAGFKAAVAAAAVVP
PADKYKTFVETFGTATNKAFVEGLASGYADQSKNQLTSKLDAALK
LAYEAAQGATPEAKYDAYVATLTEALRVIAGTLEVHAVKPAAEEV
KVGAIPAAEVQLIDKVDAAYRTAATAANAAPANDKFTVFENTFNN
AIKVSLGAAYDSYKFIPTLVAAVKQAYAAKQATAPEVKYTVSETAL
KKAVTAMSEAEKEATPAAAATATPTPAAATATATPAAAYATATPA
AATATATPAAATATPAAAGGYKV

1582249 Lol p 11 (SEQ ID NO: 43)

DKGPGFVVTGRVYCDPCRAGFETNVSHNVEGATVAVDCRPFDGG ESKLKAEATTDKDGWYKIEIDQDHQEEICEVVLAKSPDKSCSEIEEF RDRARVPLTSNXGIKQQGIRYANPIAFFRKEPLKECGGILQAY

Additional Lolium sequences (NCBI entrez accession):

135480; 417103; 687261; 687259; 1771355; 2388662; 631955; 542131;

542130; 542129; 100636; 626029; 542132; 320616; 320615; 320614;

 $100638;\, 100634;\, 82450;\, 626028;\, 100639;\, 283345;\, 542133;\, 1771353;$

1763163; 1040877; 1040875; 250525; 551047; 515377; 510911; 939932;

439950; 2718; 168316; 168314; 485371; 2388664; 2832717; 2828273; 548867.

9. On page 57, please replace all of the text on page 57 with the following text:

Olive tree

Olive sequences

416610 Ole e 1 (SEQ ID NO: 44)

EDIPQPPVSQFHIQGQVYCDTCRAGFITELSEFIPGASLRLQCKDKEN

GDVTFTEVGYTRAEGLYSMLVE

RDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFKLNTVNGTTRTV

NPLGFFKKEALPKCAQVYNKLGM

YPPNM

Parietaria

Parietaria sequences:

2497750 Par j P2 (SEQ ID NO: 45)

MRTVSMAALVVIAAALAWTSSAEPAPAPAPGEEACGKVVQDIMPC

LHFVKGEEKEPSKECCSGTKKLSEEVKTTEQKREACKCIVRATKGIS

GIKNELVAEVPKKCDIKTTLPPITADFDCSKIQSTIFRGYY

1352506 Par j P5 (SEQ ID NO: 46)

MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACE

CIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLPPIDVNMDCKTVGVV

PROPOLPVSLRHGPVTGPSDPAHKARLERPQIRVPPPAPEKA

1532056 Par j P8 (SEQ ID NO: 47)

MRTVSMAALVVIAAALAWTSSAELASAPAPGEGPCGKVVHHIMPC

LKFVKGEEKEPSKSCCSGTKKLSEEVKTTEQKREACKCIVAATKGIS

GIKNELVAEVPKKCGITTTLPPITADFDCSKIESTIFRGYY

1532058 Par j P9 (SEQ ID NO: 48)

MRTVSAPSAVALVVIVAAGLAWTSLASVAPPAPAPGSEETCGTVVR

10. On page 58, please replace all of the text on page 58 with the following text:

ALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGLQRVHACECIQT

AMKTYSDIDGKLVSEVPKHCGIVDSKLPPIDVNMDCKTLGVVPRQP

QLPVSLRHGPVTGPSDPAHKARLERPQIRVPPPAPEKA

2497749 Par j P9 (SEQ ID NO: 49)

MRTVSARSSVALVVIVAAVLVWTSSASVAPAPAPGSEETCGTVVGA

LMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACECIQTA

MKTYSDIDGKLVSEVPKHCGIVDSKLPPIDVNMDCKTLGVLHYKG

1086003 Par j 1 (SEQ ID NO: 50)

MVRALMPCLPFVQGKEKEPSKGCCSGAKRLDGETKTGPQRVHACE CIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLPPIDVNMDCKTVGVV PRQPQLPVSLRHGPVTGPSRSRPPTKHGWRDPRLEFRPPHRKKPNP AFSTLG

Additional Parietaria sequences (NCBI entrez accession): 543659; 1836011; 1836010; 1311513; 1311512; 1311511; 1311510; 1311509; 240971.

Timothy grass

Phleum sequences:

Phl p 1 (SEQ ID NO: 51)

MASSSSVLLVVVLFAVFLGSAYGIPKVPPGPNITATYGDKWLDAKS
TWYGKPTGAGPKDNGGACGYKDVDKPPFSGMTGCGNTPIFKSGRG
CGSCFEIKCTKPEACSGEPVVVHITDDNEEPIAPYHFDLSGHAFGAM
AKKGDEQKLRSAGELELQFRRVKCKYPEGTKVTFHVEKGSNPNYL
ALLVKYVNGDGDVVAVDIKEKGKDKWIELKESWGAIWRIDTPDKL

11. On page 59, please replace all of the text on page 59 with the following text:

TGPFTVRYTTEGGTKTEAEDVIPEGWKADTSYESK

Phl p 1 (SEQ ID NO: 52)

MASSSSVLLVVALFAVFLGSAHGIPKVPPGPNITATYGDKWLDAKS
TWYGKPTAAGPKDNGGACGYKDVDKPPFSGMTGCGNTPIFKSGRG
CGSCFEIKCTKPEACSGEPVVVHITDDNEEPIAAYHFDLSGIAFGSM
AKKGDEQKLRSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNPNYL
ALLVKFSGDGDVVAVDIKEKGKDKWIALKESWGAIWRIDTPEVLK

GPFTVRYTTEGGTKARAKDVIPEGWKADTAYESK

Phlp 2 (SEQ ID NO: 53)

MSMASSSSSLLAMAVLAALFAGAWCVPKVTFTVEKGSNEKHLAV LVKYEGDTMAEVELREHGSDEWVAMTKGEGGVWTFDSEEPLQGP FNFRFLTEKGMKNVFDDVVPEKYTIGATYAPEE

Phl p 5 (SEQ ID NO: 54)

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAA
AGVPPADKYKTFVATFGAASNKAFAEGLSAEPKGAAESSSKAALTS
KLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAV
KPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVFEA
AFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVF

12. On page 60, please replace all of the text on page 59 with the following text: ETALKKAFTAMSEAQKAAKPATEATATATAAVGAATGAATAATG
GYKV

Phl p 5 (SEQ ID NO: 55)

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAA
AGVPPADKYKTFVATFGAASNKAFAEGLSAEPKGAAESSSKAALTS
KLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAV
KPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVFEA
AFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVF
ETALKKAITAMSEAQKAAKPATEATATATAAVGAATGAATAATGG
YKV

Phl p 5b (SEQ ID NO: 56)

AAAAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQ KLIEDINVGFKAAVAAAASVPAADKFKTFEAAFTSSSKAAAAKAPG LVPKLDAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIAGALEV
HAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKF
TVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQV
KYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAAS
GAATVAAGGYKV

Phl p 5a (SEQ ID NO: 57)

ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKIN
AGFKAALAGAGVQPADKYRTFVATFGPASNKAFAEGLSGEPKGAA
ESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRII
AGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP
ANDKFTVFEAAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVA
TAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAA
TGAATAATGGYKV

Phl p 5 (SEQ ID NO: 58)
MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGK
ATTEEQKLIEDINVGFKAAVAAAASVPAADKFKTFEAAFTSSSKAA
TAKAPGLVPKLDAAYSVSYKAAVGATPEAKFDSFVASLTEALRVIA
GALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAP
ADTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAP
QVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAG
AASGAATVAAGGYKV

13. On page 61, please replace all of the text on page 61 with the following text: Phl p 5 (SEQ ID NO: 59)

MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGK ATTEEQKLIEDINVGFKAAVAAAASVPAADKFKTFEAAFTSSSKAA TAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIA GALEVHAVKPVTEDPAWPKIPAGELQIIDKIDAAFKVAATAAATAP
ADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATV
AAAPQVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATT
ATGAASGAATVAAGGYKV

Phl p 5 (SEQ ID NO: 60)

ADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGFKAAVAAAASV
PAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGA
TPEAKFDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGEL
QIIDKIDAAFKVAATAAATAPADDKFTVFEAAFNKAIKESTGGAYD
TYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEV
QKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV
Phl p 5 (SEQ ID NO: 61)

SVKRSNGSAEVHRGAVPRRGPRGGPGRSYAADAGYAPATPAAAGA
EAGKATTEEQKLIEDINVGFKAAVAAAASVPAADKFKTFEAAFTSS
SKAATAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVASLTEA
LRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAA
ATAPADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYA
ATVAAAPQVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGA
ATTAAGAASGAATVAAGGYKV

Phl p 5 (SEQ ID NO: 62)

MAVHQYTVALFLAVALVAGPAGSYAADLGYGPATPAAPAAGYTP
ATPAAPAGAEPAGKATTEEQKLIEKINAGFKAALAAAAGVPPADKY
RTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLA

14. On page 62, please replace all of the text on page 62 with the following text: YKTAEGATPEAKYDAYVATVSEALRIIAGTLEVHAVKPAAEEVKVI

PAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKAS
TGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAIT
AMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV
Phl p 5 (SEQ ID NO: 63)

ADLGYGGPATPAAPAEAAPAGKATTEEQKLIEKINDGFKAALAAA
AGVPPADKYKTFVATFGAASNKAFAEGLSAEPKGAAESSSKAALTS
KLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAV
KPAAEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVFEA
AFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVF
ETALKKAFTAMSEAQKAAKPATEATATATAAVGAATGAATAATG
GYKV

Phl p5b (SEQ ID NO: 64)

AAAAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQ
KLIEDINVGFKAAVAAAASVPAADKFKTFEAAFTSSSKAAAAKAPG
LVPKLDAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIAGALEV
HAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKF
TVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQV
KYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAAS
GAATVAAGGYKV

Phl p5a (SEQ ID NO: 65)

ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKIN AGFKAALAGAGVQPADKYRTFVATFGPASNKAFAEGLSGEPKGAA ESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRII AGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP ANDKFTVFEAAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVA

TAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAA

15. On page 63, please replace all of the text on page 63 with the following text:

TGAATAATGGYKV

Phl p 5 (SEQ ID NO: 66)

AVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIE
DINVGFKAAVAAAASVPAGDKFKTFEAAFTSSSKAATAKAPGLVPK
LDAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIAGALEVHAVK
PVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKFTVFE
AAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYA
VFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTATGAASGAA
TVAAGGYKV

Phl p 5b (SEQ ID NO: 67)

MAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLI
EDINVGFKAAVAARQRPAADKFKTFEAASPRHPRPLRQGAGLVPKL
DAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIAGALEVHAVKP
VTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKFTVFEA
AFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAAEVKYAV
FEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAAT
VAAGGYKV

Phl p 5 (SEQ ID NO: 68)

MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTP
ATPAAPAEAAPAGKATTEEQKLIEKINAGFKAALAAAAGVQPADK
YRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKL
AYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKV
IPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKAS

TGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAIT
AMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV
Phl p 5 (SEQ ID NO: 69)

16. On page 64, please replace all of the text on page 64 with the following text:

EAPAGKATTEEQKLIEKINAGFKAALARRLQPADKYRTFVATFGPA

SNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKLAYKTAEGATPE

AKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIPAAELQVIEKV

DAAFKVAATAANAAPANDKFTVFEAAFNDEIKASTGGAYESYKFIP

ALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKP

PPLPPPPQPPPLAATGAATAATGGYKV

Phl p 5 (SEQ ID NO: 70)

MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTP
ATPAAPAEAAPAGKATTEEQKLIEKINAGFKAALAAAAGVQPADK
YRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKL
AYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKV
IPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKAS
TGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAIT
AMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV
Phl p 5b (SEQ ID NO: 71)

MAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLI EDINVGFKAAVAARQRPAADKFKTFEAASPRHPRPLRQGAGLVPKL DAAYSVAYKAAVGATPEAKFDSFVASLTEALRVIAGALEVHAVKP VTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDKFTVFEA AFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAATVAAAAEVKYAV FEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAAT VAAGGYKV

Phl p 5a (SEQ ID NO: 72)

ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKIN AGFKAALAGAGVQPADKYRTFVATFGPASNKAFAEGLSGEPKGAA ESSSKAALTSKLDAAYKLAYKTAEGATPEAKYDAYVATLSEALRII AGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP

17. On page 65, please replace all the text on page 65 with the following text:

ANDKFTVFEAAFNDEIKASTGGAYESYKFIPALEAAVKQAYAATVA

TAPEVKYTVFETALKKAITAMSEAQKAAKPPPLPPPPQPPPLAATGA

ATAATGGYKV

Phl p 5 (SEQ ID NO: 73)

MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTP
ATPAAPAEAAPAGKATTEEQKLIEKINAGFKAALAAAAGVQPADK
YRTFVATFGAASNKAFAEGLSGEPKGAAESSSKAALTSKLDAAYKL
AYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKV
IPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKAS
TGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAIT
AMSEAQKAAKPAAAATATATAAVGAATGAATAATGGYKV
Phl p 6 (SEQ ID NO: 74)

MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDVNA SFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQLVP KLDEVYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAV KPGA

Phl p 6 (SEQ ID NO: 75)

SKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSEALHIIAG

TPEVHAVKPGA

Phl p 6 (SEQ ID NO: 76)

ADKYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYNAAYNAAD HAAPEDKYEAFVLHFSEALHIIAGTPEVHAVKPGA

18. On page 66, please replace all of the text on page 66 with the following text:

Phl p 6 (SEQ ID NO: 77)

TEEQKLIEDVNASFRAAMATTANVPPADKYKTLEAAFTVSSKRNLA DAVSKAPQLVPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSEALR IIAGTPEVHAVKPGA

Phl p 6 (SEQ ID NO: 78)

MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDINAS FRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQLVPK LDEVYNAAYNAADHAAPEDKYEAFVLHFSEALHIIAGTPEVHAVK PGA

Phl p 6 (SEQ ID NO: 79)

MVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDVNASFRAAMA
TTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEVYN
AAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA
Phl p 7 (SEQ ID NO: 80)

MADDMERIFKRFDTNGDGKISLSELTDALRTLGSTSADEVQRMMA EIDTDGDGFIDFNEFISFCNANPGLMKDVAKVF

Phl p 11 (SEQ ID NO: 81)

MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPE EITGIMKDFDEPGHLAPTGMFVAGAKYMVIQGEPGRVIRGKKGAG GITIKKTGQALVVGIYDEPMTPGQCNMVVERLGDYLVEQGM Additional Phleum sequences (NCBI entrez accession):

458878; 548863; 2529314; 2529308; 2415702; 2415700; 2415698; 542168; 542167; 626037; 542169; 541814; 542171; 253337; 253336; 453976; 439960.

19. On page 67, please replace all of the text on page 67 with the following text: Wasp (and related)

Vespula sequences:

465054 ALLERGEN VES V 5 (SEQ ID NO: 82)

MEISGLVYLIIIVTIIDLPYGKANNYCKIKCLKGGVHTACKYGSLKPN
CGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLETRGNPGPQPPA
KNMKNLVWNDELAYVAQVWANQCQYGHDTCRDVAKYQVGQNV
ALTGSTAAKYDDPVKLVKMWEDEVKDYNPKKKFSGNDFLKTGHY
TQMVWANTKEVGCGSIKYIQEKWHKHYLVCNYGPSGNFMNEELY
QTK

1709545 ALLERGEN VES M 1 (SEQ ID NO: 83)

GPKCPFNSDTVSIIIETRENRNRDLYTLQTLQNHPEFKKKTITRPVVF
ITHGFTSSASEKNFINLAKALVDKDNYMVISIDWQTAACTNEYPGL
KYAYYPTAASNTRLVGQYIATITQKLVKDYKISMANIRLIGHSLGAH
VSGFAGKRVQELKLGKYSEIIGLDPARPSFDSNHCSERLCETDAEYV
QIIHTSNYLGTEKILGTVDFYMNNGKNNPGCGRFFSEVCSHTRAVIY
MAECIKHECCLIGIPRSKSSQPISRCTKQECVCVGLNAKKYPSRGSFY
VPVESTAPFCNNKGKII

1352699 ALLERGEN VES V 1 (SEQ ID NO: 84)

MEENMNLKYLLLFVYFVQVLNCCYGHGDPLSYELDRGPKCPFNSD TVSIIIETRENRNRDLYTLQTLQNHPEFKKKTITRPVVFITHGFTSSAS ETNFINLAKALVDKDNYMVISIDWQTAACTNEAAGLKYLYYPTAA
RNTRLVGQYIATITQKLVKHYKISMANIRLIGHSLGAHASGFAGKKV
QELKLGKYSEIIGLDPARPSFDSNHCSERLCETDAEYVQIIHTSNYLG
TEKTLGTVDFYMNNGKNQPGCGRFFSEVCSHSRAVIYMAECIKHE
CCLIGIPKSKSSQPISSCTKQECVCVGLNAKKYPSRGSFYVPVESTAP
FCNNKGKII

20. On page 68, please replace all of the text on page 68 with the following text:

1346323 ALLERGEN VES V 2 (SEQ ID NO: 85)

SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNIKRNSKDDFQGD
KIAIFYDPGEFPALLSLKDGKYKKRNGGVPQEGNITIHLQKFIENLD
KIYPNRNFSGIGVIDFERWRPIFRQNWGNMKIHKNFSIDLVRNEHPT
WNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGYYGYP
YCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQE
LTPDQRIGLVQGRVKEAVRISNNLKHSPKVLSYWWYVYQDETNTF
LTETDVKKTFQEIVINGGDGIIIWGSSSDVNSLSKCKRLQDYLLTVLG
PIAINVTEAVN

549194 ALLERGEN VES VI (SEQ ID NO: 86)

5KVNYCKIKCLKGGVHTACKYGTSTKPNCGKMVVKAYGLTEAEK
QEILKVHNDFRQKVAKGLETRGNPGPQPPAKNMNNLVWNDELANI
AQVWASQCNYGHDTCKDTEKYPVGQNIAKRSTTAALFDSPGKLVK
MWENEVKDFNPNIEWSKNNLKKTGHYTQMVWAKTKEIGCGSVKY
VKDEWYTHYLVCNYGPSGNFRNEKLYEKK

Additional vespula sequences (NCBI entrez accession):

549193; 549192; 549191; 549190; 549189; 117414; 126761; 69576; 625255; 627189; 627188; 627187; 482382; 112561; 627186; 627185;

1923233; 897645; 897647; 745570; 225764; 162551.

Tree allergen sequences (mainly birch) sequences:

114922 Bet v 1 (SEQ ID NO: 87)

MGVFNYETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEG
NGGPGTIKKISFPEGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGD
TLEKISNEIKIVATPDGGSILKISNKYHTKGDHEVKAEQVKASKEMG
ETLLRAVESYLLAHSDAYN

21. On page 69, please replace all of the text on page 69 with the following text:

130975 Bet v 2 (SEQ ID NO: 88)

MSWQTYVDEHLMCDIDGQASNSLASAIVGHDGSVWAQSSSFPQFK PQEITGIMKDFEEPGHLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSG GITIKKTGQALVFGIYEEPVTPGQCNMVVERLGDYLIDQGL

1168696 Bet v 3 (SEQ ID NO: 89)

MPCSTEAMEKAGHGHASTPRKRSLSNSSFRLRSESLNTLRLRRIFDL
FDKNSDGIITVDELSRALNLLGLETDLSELESTVKSFTREGNIGLQFE
DFISLHQSLNDSYFAYGGEDEDDNEEDMRKSILSQEEADSFGGFKV
FDEDGDGYISARELQMVLGKLGFSEGSEIDRVEKMIVSVDSNRDGR
VDFFEFKDMMRSVLVRSS

809536 Bet v 4 (SEQ ID NO: 90)

MADDHPQDKAERERIFKRFDANGDGKISAAELGEALKTLGSITPDE
VKHMMAEIDTDGDGFISFQEFTDFGRANRGLLKDVAKIF
543675 Que a I (SEQ ID NO: 91)- Quercus alba=oak trees (fragment)
GVFTXESQETSVIAPAXLFKALFL

543509 Car b I (SEQ ID NO: 92)- Carpinus betulus=hornbeam trees (fragment)
GVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAIXK

543491 Aln g I (SEQ ID NO: 93)- Alnus glutinosa=alder trees (fragment)
GVFNYEAETPSVIPAARLFKAFILDGDKLLPKVAPEAVSSVENI
1204056 Rubisco (SEQ ID NO: 94)
VQCMQVWPPLGLKKFETLSYLPPLSSEQLAKEVDYLLRKNLIPCLE
FELEHGFVYREHNRSPGYYDGRYWTMWKLPMFGCNDSSQVLKEL
EECKKAYPSAFIRIIGFDDK

22. On page 70, please replace all of the text on page 70 with the following text: Additional tree allergen sequences (NCBI entrez accession number): 131919; 128193; 585564; 1942360; 2554672; 2392209; 2414158; 1321728; 1321726; 1321724; 1321722; 1321720; 1321718; 1321716; 1321714; 1321712; 3015520; 2935416; 464576; 1705843; 1168701; 1168710; 1168709; 1168708; 1168707; 1168706; 1168705; 1168704; 1168703; 1168702; 1842188; 2564228; 2564226; 2564224; 2564222; 2564220; 2051993; 1813891; 1536889; 534910; 534900; 534898; 1340000; 1339998; 2149808; 66207; 2129477; 1076249; 1076247; 629480; 481805; 81443; 1361968; 1361967; 1361966; 1361965; 1361964; 1361963; 1361962; 1361961; 1361960; 1361959; 320546; 629483; 629482; 629481; 541804; 320545; 81444; 541814:; 629484; 474911; 452742; 1834387; 298737; 298736; 1584322; 1584321; 584320; 1542873; 1542871; 1542869; 1542867; 1542865; 1542863; 1542861; 1542859; 1542857; 1483232; 1483230; 1483228; 558561; 551640; 488605; 452746; 452744; 452740; 452738; 452736; 452734; 452732; 452730; 452728; 450885; 17938; 17927; 17925; 17921; 297538; 510951; 289331; 289329; 166953.

Peanut

Peanut sequences

1168391 Ara h 1 (SEQ ID NO: 95)

MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSC
QQEPDDLKQKACESRCTKLEYDPRCVYDPRGHTGTTNQRSPPGER
TRGRQPGDYDDDRRQPRREEGGRWGPAGPREREEDWRQPRED
WRRPSHQQPRKIRPEGREGEQEWGTPGSHVREETSRNNPFYFPSRR
FSTRYGNQNGRIRVLQRFDQRSRQFQNLQNHRIVQIEAKPNTLVLP
KHADADNILVIQQGQATVTVANGNNRKSFNLDEGHALRIPSGFISYI
LNRHDNQNLRVAKISMPVNTPGQFEDFFPASSRDQSSYLQGFSRNT

23. On page 71, please replace all of the text on page 71 with the following text:

LEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIV

KVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSNNFGK

LFEVKPDKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVV

NKGTGNLELVAVRKEQQQRGRREEEEDEDEEEEGSNREVRRYTAR

LKEGDVFIMPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDN

VIDQIEKQAKDLAFPGSGEQVEKLIKNQKESHFVSARPQSQSQSPSSP

EKESPEKEDQEEENQGGKGPLLSILKAFN

Ragweed

Ambrosia sequences

113478 Amb a 1 (SEQ ID NO: 96)

MGIKHCCYILYFTLALVTLLQPVRSAEDLQQILPSANETRSLTTCGT
YNIIDGCWRGKADWAENRKALADCAQGFAKGTIGGKDGDIYTVTS
ELDDDVANPKEGTLRFGAAQNRPLWIIFARDMVIRLDRELAINNDK
TIDGRGAKVEIINAGFAIYNVKNIIIHNIIMHDIVVNPGGLIKSHDGPP
VPRKGSDGDAIGISGGSQIWIDHCSLSKAVDGLIDAKHGSTHFTVSN

CLFTQHQYLLLFWDFDERGMLCTVAFNKFTDNVDQRMPNLRHGF VQVVNNNYERWGSYALGGSAGPTILSQGNRFLASDIKKEVVGRYG ESAMSESINWNWRSYMDVFENGAIFVPSGVDPVLTPEQNAGMIPAE PGEAVLRLTSSAGVLSCQPGAPC

113479 Amb a 2 (SEQ ID NO: 97)

MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCE
AHNIIDKCWRCKPDWAENRQALGNCAQGFGKATHGGKWGDIYM
VTSDQDDDVVNPKEGTLRFGATQDRPLWIIFQRDMIIYLQQEMVVT
SDKTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRVLPGGRIKS
NGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSFDGLVDVNWGST
GVTISNCKFTHHEKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHE

24. On page 72, please replace all of the text on page 72 with the following text:

RMPRCRFGFFQIVNNFYDRWDKYAIGGSSNPTILSQGNKFVAPDFIY

KKNVCLRTGAQEPEWMTWNWRTQNDVLENGAIFVASGSDPVLTA

EQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

113477 Amb a 1.3 (SEQ ID NO: 98)

MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEA
LNIIDKCWRGKADWENNRQALADCAQGFAKGTYGGKWGDVYTV
TSNLDDDVANPKEGTLRFAAAQNRPLWIIFKNDMVINLNQELVVN
SDKTIDGRGVKVEIINGGLTLMNVKNIIIHNINIHDVKVLPGGMIKSN
DGPPILRQASDGDTINVAGSSQIWIDHCSLSKSFDGLVDVTLGSTHV
TISNCKFTQQSKAILLGADDTHVQDKGMLATVAFNMFTDNVDQR
MPRCRFGFFQVVNNNYDRWGTYAIGGSSAPTILCQGNRFLAPDDQI
KKNVLARTGTGAAESMAWNWRSDKDLLENGAIFVTSGSDPVLTPV
QSAGMIPAEPGEAAIKLTSSAGVFSCHPGAPC

113476 Amb a 1.2 (SEQ ID NO: 99)

MGIKHCCYILYFTLALVTLLQPVRSAEDVEEFLPSANETRRSLKACE
AHNIIDKCWRCKADWANNRQALADCAQGFAKGTYGGKHGDVYT
VTSDKDDDVANPKEGTLRFAAAQNRPLWIIFKRNMVIHLNQELVV
NSDKTIDGRGVKVNIVNAGLTLMNVKNIIIHNINIHDIKVCPGGMIKS
NDGPPILRQQSDGDAINVAGSSQIWIDHCSLSKASDGLLDITLGSSHV
TVSNCKFTQHQFVLLLGADDTHYQDKGMLATVAFNMFTDHVDQR
MPRCRFGFFQVVNNNYDRWGTYAIGGSSAPTILSQGNRFFAPDDIIK
KNVLARTGTGNAESMSWNWRTDRDLLENGAIFLPSGSDPVLTPEQ
KAGMIPAEPGEAVLRLTSSAGVLSCHQGAPC

113475 Amb a 1.1 (SEQ ID NO: 100)

MGIKHCCYILYFTLALVTLLQPVRSAEDLQEILPVNETRRLTTSGAY
NIIDGCWRGKADWAENRKALADCAQGFGKGTVGGKDGDIYTVTS
ELDDDVANPKEGTLRFGAAQNRPLWIIFERDMVIRLDKEMVVNSD

25. On page 73, please replace all of the text on page 73 with the following text:

KTIDGRGAKVEIINAGFTLNGVKNVIIHNINMHDVKVNPGGLIKSND

GPAAPRAGSDGDAISISGSSQIWIDHCSLSKSVDGLVDAKLGTTRLT

VSNSLFTQHQFVLLFGAGDENIEDRGMLATVAFNTFTDNVDQRMP

RCRHGFFQVVNNNYDKWGSYAIGGSASPTILSQGNRFCAPDERSKK

NVLGRHGEAAAESMKWNWRTNKDVLENGAIFVASGVDPVLTPEQ

SAGMIPAEPGESALSLTSSAGVLSCQPGAPC

Cedar sequences

493634 Cry j IB precursor (SEQ ID NO: 101)

MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADC AVGFGSSTMGGKGGDLYTVTNSDDDPVNPPGTLRYGATRDRPLWI IFSGNMNIKLKMPMYIAGYKTFDGRGAQVYIGNGGPCVFIKRVSNV
IIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTATNIWI
DHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMSLGHDDAYSD
DKSMKVTVAFNQFGPNCGQRMPRARYGLVHVANNNYDPWTIYAI
GGSSNPTILSEGNSFTAPNESYKKQVTIRIGCKTSSSCSNWVWQSTQ
DVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLTQNAGVL
TCSLSKRC

493632 Cry j IA precursor (SEQ ID NO: 102)

MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADC
AVGFGSSTMGGKGGDLYTVTNSDDDDPVNPAPGTLRYGATRDRPL
WIIFSGNMNIKLKMPMYIAGYKTFDGRGAQVYIGNGGPCVFIKRVS
NVIIHGLHLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTATNI
WIDHNSFSNSSDGLVDVTLSSTGVTISNNLFFNHHKVMLLGHDDAY
SDDKSMKVTVAFNQFGPNCGQRMPRARYGLVHVANNNYDPWTIY
AIGGSSNPTILSEGNSFTAPNESYKKQVTIRIGCKTSSSCSNWVWQST
QDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLTKNAGV
LTCSLSKRC

26. On page 74, please replace all of the text on page 74 with the following text:

1076242 Cry j II precursor - Japanese cedar (SEQ ID NO: 103)

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSL

RKVEHSRHDAINIFNVEKYGAVGDGKHDCTEAFSTAWQAACKNPS

AMLLVPGSKKFVVNNLFFNGPCQPHFTFKVDGIIAAYQNPASWKN

NRIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICND

RDRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPR

DSPNTDGIDIFASKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGP

GHGISIGSLGRENSRAEVSYVHVNGAKFIDTQNGLRIKTWQGGSGM
ASHIIYENVEMINSENPILINQFYCTSASACQNQRSAVQIQDVTYKNI
RGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANG
YFSGHVIPACKNLSPSAKRKESKSHKHPKTVMVENMRAYDKGNRT
RILLGSRPPNCTNKCHGCSPCKAKLVIVHRIMPQEYYPQRWICSCHG
KIYHP

1076241 Cry j II protein - Japanese cedar (SEQ ID NO: 104)

MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSDIEQYLRSNRSLR

KVEHSRHDAINIFNVEKYGAVGDGKHDCTEAFSTAWQAACKKPSA

MLLVPGNKKFVVNNLFFNGPCQPHFTFKVDGIIAAYQNPASWKNN

RIWLQFAKLTGFTLMGKGVIDGQGKQWWAGQCKWVNGREICNDR

DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIGISITAPRD

SPNTDGIDIFASKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPG

HGISIGSLGRENSRAEVSYVHVNGAKFIDTQNGLRIKTWQGGSGMA

SHIIYENVEMINSENPILINQFYCTSASACQNQRSAVQIQDVTYKNIR

GTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGY

FSGHVIPACKNLSPSAKRKESKSHKHPKTVMVKNMGAYDKGNRTRI

LLGSRPPNCTNKCHGCSPCKAKLVIVHRIMPQEYYPQRWMCSRHG

541803 Cry j I precursor - Japanese cedar (SEQ ID NO: 105)

KIYHP

27. On page 75, please replace all of the text on page 75 with the following text:

MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADC

AVGFGSSTMGGKGGDLYTVTNSDDDPVNPPGTLRYGATRDRPLWI

IFSGNMNIKLKMPMYIAGYKTFDGRGAQVYIGNGGPCVFIKRVSNV

IIHGLHLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTATNIWI

DHNSFSNSSDGLVDVTLSSTGVTISNNLFFNHHKVMLLGHDDAYSD
DKSMKVTVAFNQFGPNCGQRMPRARYGLVHVANNNYDPWTIYAI
GGSSNPTILSEGNSFTAPNESYKKQVTIRIGCKTSSSCSNWVWQSTQ
DVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLTKNAGVL
TCSLSKRC

541802 Cry j I precursor- Japanese cedar (SEQ ID NO: 106)

MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADC
AVGFGSSTMGGKGGDLYTVTNSDDDPVNPAPGTLRYGATRDRPL
WIIFSGNMNIKLKMPMYIAGYKTFDGRGAQVYIGNGGPCVFIKRVS
NVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTATNI
WIDHNSFSNSSDGLVDVTLTSTGVTISNNLFFNHHKVMSLGHDDAY
SDDKSMKVTVAFNQFGPNCGQRMPRARYGLVHVANNNYDPWTIY
AIGGSSNPTILSEGNSFTAPNESYKKQVTIRIGCKTSSSCSNWVWQST
QDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLTQNAGV

LTCSLSKRC

Dog

Canis sequences:

Can f 1 (SEQ ID NO: 107)

MKTLLLTIGFSLIAILQAQDTPALGKDTVAVSGKWYLKAMTADQE VPEKPDSVTPMILKAQKGGNLEAKITMLTNGQCQNITVVLHKTSEP GKYTAYEGQRVVFIQPSPVRDHYILYCEGELHGRQIRMAKLLGRDP EQSQEALEDFREFSRAKGLNQEILELAQSETCSPGGQ

28. On page 76, please replace all of the text on page 76 with the following text: Serum albumin fragment (SEQ ID NO: 108)

EAYKSEIAHRYNDLGEEHFRGLVL

Serum albumin fragment (SEQ ID NO: 109)

LSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVT
DLTKVHKECCHGDLLECADDRADLAKYMCENQDSISTKLKECCDK
PVLEKSQCLAEVERDELPGDLPSLAADFVEDKEVCKNYQEAKDVF
LGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCYAK
VLDEFKPLVDEPQNLVKTNCELFEKLGEYGFQNALLVRYTKKAPQ
VSTPTLVVEVSRKLGKVGTKCCKKPESERMSCADDFLS

Can f 2 (SEQ ID NO: 110)

MQLLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASN
KSDLIKPWGHFRVFIHSMSAKDGNLHGDILIPQDGQCEKVSLTAFKT
ATSNKFDLEYWGHNDLYLAEVDPKSYLILYMINQYNDDTSLVAHL
MVRDLSRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRCQGSRD
Additional dog allergen protein (NCBI entrez accession):

1731859

Horse

Equus sequences:

1575778 Equ c1 (SEQ ID NO: 111)

MKLLLLCLGLILVCAQQEENSDVAIRNFDISKISGEWYSIFLASDVK EKIEENGSMRVFVDVIRALDNSSLYAEYQTKVNGECTEFPMVFDKT EEDGVYSLNYDGYNVFRISEFENDEHIILYLVNFDKDRPFQLFEFYA REPDVSPEIKEEFVKIVQKRGIVKENIIDLTKIDRCFQLRGNGVAQA

29. On page 77, please replace all of the text on page 77 with the following text:

3121755 Equ c 2 (SEQ ID NO: 112)

SQXPQSETDYSQLSGEWNTIYGAASNIXK

Euroglyphus (mite)

Euroglyphus sequences:

Eur m 1 (variant) (SEQ ID NO: 113)

TYACSINSVSLPSELDLRSLRTVTPIRMQGGCGSCWAFSGVASTESA
YLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIEYIQQNGVVQE
HYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQTHTA
VAVIIGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQG
VDYWIVRNSWDTTWGDNGYGYFAANINL

Eur m 1 (variant) (SEQ ID NO: 114)

TYACSINSVSLPSELDLRSLRTVTPIRMQGGCGSCWAFSGVASTESA
YLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIEYIQQNGVVQE
HYYPYVAREQSCHRPNAQRYGLKNYCQISPPDSNKIRQALTQTHTA
VAVIIGIKDLNAFRHYDGRTIMQHDNGYQPNYHAVNIVGYGNTQG
VDYWIVRNSWDTTWGDNGYGYFAANINL

Eur m 1 (variant) (SEQ ID NO: 115).

ETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATES
AYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQE
SYYRYVAREQSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAI
AVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNAQGVD
YWIVRNSWDTNWGDNGYGYFAANIDL

Eur m 1 (variant) (SEQ ID NO: 116)

ETSACRINSVNVPSELDLRSLRTVTPIRMQGGCGSCWAFSGVAATES

30. On page 78, please replace all of the text on page 78 with the following text:

AYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEE

RSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAI

AVIIGIKDLRAFQHYDGRTIIQHDNGYQPNYHAVNIVGYGSTQGVD YWIVRNSWDTTWGDSGYGYFQAGNNL

Poa (grass) sequences

113562 POLLEN ALLERGEN POA P 9 (SEQ ID NO: (117)

MAVQKYTVALFLVALVVGPAASYAADLSYGAPATPAAPAAGYTP
AAPAGAAPKATTDEQKMIEKINVGFKAAVAAAGGVPAANKYKTFV
ATFGAASNKAFAEALSTEPKGAAVDSSKAALTSKLDAAYKLAYKS
AEGATPEAKYDDYVATLSEALRIIAGTLEVHGVKPAAEEVKATPAG
ELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGG
AYQSYKFIPALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMS
QAQKAAKPAAAATGTATAAVGAATGAATAAAGGYKV

113561 POA P 9 (SEQ ID NO: 118)

MAVHQYTVALFLAVALVAGPAASYAADVGYGAPATLATPATPAA
PAAGYTPAAPAGAAPKATTDEQKLIEKINAGFKAAVAAAAGVPAV
DKYKTFVATFGTASNKAFAEALSTEPKGAAAASSNAVLTSKLDAA
YKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAGEE
VKAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDA
IKASTGGAYQSYKFIPALEAAVKQSYAATVATAPAVKYTVFETALK
KAITAMSQAQKAAKPAAAVTATATGAVGAATGAVGAATGAATAA
AGGYKTGAATPTAGGYKV

113560 POA P 9 (SEQ ID NO: 119)

MDKANGAYKTALKAASAVAPAEKFPVFQATFDKNLKEGLSGPDA VGFAKKLDAFIQTSYLSTKAAEPKEKFDLFVLSLTEVLRFMAGAVK APPASKFPAKPAPKVAAYTPAAPAGAAPKATTDEQKLIEKINVGFK

31. On page 79, please replace all of the text on page 79 with the following text:

AAVAAAAGVPAASKYKTFVATFGAASNKAFAEALSTEPKGAAVAS
SKAVLTSKLDAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGT
LEVHGVKPAAEEVKAIPAGELQVIDKVDAAFKVAATAANAAPAND
KFTVFEAAFNDAIKASTGGAYQSYKFIPALEAAVKQSYAATVATAP
AVKYTVFETALKKAITAMSQAQKAAKPAAAVTGTATSAVGAATGA
ATAAAGGYKV

Cockroach sequences

2833325 Cr p1 (SEQ ID NO: 120)

MKTALVFAAVVAFVAARFPDHKDYKQLADKQFLAKQRDVLRLFH RVHQHNILNDQVEVGIPMTSKQTSATTVPPSGEAVHGVLQEGHARP RGEPFSVNYEKHREQAIMLYDLLYFANDYDTFYKTACWARDRVN EGMFMYSFSIAVFHRDDMQGVMLPPPYEVYPYLFVDHDVIHMAQ KYWMKNAGSGEHHSHVIPVNFTLRTQDHLLAYFTSDVNLNAFNTY YRYYYPSWYNTTLYGHNIDRRGEQFYYTYKQIYARYFLERLSNDLP DVYPFYYSKPVKSAYNPNLRYHNGEEMPVRPSNMYVTNFDLYYIA DIKNYEKRVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEG NMDSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLEHPETVLR DPVFYQLWKRVDHLFQKYKNRLPRYTHDELAFEGVKVENVDVGK LYTYFEQYDMSLDMAVYVNNVDQISNVDVQLAVRLNHKPFTYNIE VSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHYFVEMDRFPYH VGAGKTVIERNSHDSNIIAPERDSYRTFYKKVQEAYEGKSQYYVDK GHNYCGYPENLLIPKGKKGGQAYTFYVIVTPYVKQDEHDFEPYNY KAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDFYTPNMYFKDVIIF HKKYDEVGVQGH

2231297 Cr p2 (SEQ ID NO: 121)

INEIHSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQE KLETSPDFKALYDAIRSPEFQSIISTLNAMQRSEHHQNLRDKGVDVD

32. On page 80, please replace all of the text on page 80 with the following text:
HFIQLIRALFGLSRAARNLQDDLNDFLHSLEPISPRHRHGLPRQRRR
SARVSAYLHADDFHKIITTIEALPEFANFYNFLKEHGLDVVDYINEI
HSIIGLPPFVPPSRRHARRGVGINGLIDDVIAILPVDELKALFQEKLET
SPDFKALYDAIRSPEFQSIISTLNAMPEYQELLQNLRDKGVDVDHFI
RVDQGTLRTLSSGQRNLQDDLNDFLALIPTDQILAIAMDYLANDAE
VQELVAYLQSDDFHKIITTIEALPEFANFYNFLKEHGLDVVDYINEI
HSIIGLPPFVPPSQRHARRGVGINGLIDDVIAILPVDELKALFQEKLET
SPDFKALYDAIDLRSSRA

1703445 Bla g 2 (SEQ ID NO: 122)

MIGLKLVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGN
QNFLTVFDSTSCNVVVASQECVGGACVCPNLQKYEKLKPKYISDG
NVQVKFFDTGSAVGRGIEDSLTISNLTTSQQDIVLADELSQEVCILSA
DVVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHARFQDGEH
FGEIIFGGSDWKYVDGEFTYVPLVGDDSWKFRLDGVKIGDTTVAPA
GTQAIIDTSKAIIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPS
LPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPCGHSDHFFIGDFF
VDHYYSEFNWENKTMGFGRSVE

SV

1705483 Bla g 4 (SEQ ID NO: 123)

AVLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALT QYKCWIDRFSYDDALVSKYTDSQGKNRTTIRGRTKFEGNKFTIDYN DKGKAFSAPYSVLATDYENYAIVEGCPAAANGHVIYVOIRFSVRRF HPKLGDKEMIQHYTLDQVNQHKKAIEEDLKHFNLKYEDLHSTCH 2326190 Bla g 5 (SEQ ID NO: 124)

YKLTYCPVKALGEPIRFLLSYGEKDFEDYRFQEGDWPNLKPSMPFG KTPVLEIDGKQTHQSVAISRYLGKQFGLSGKDDWENLEIDMIVDTIS DFRAAIANYHYDADENSKQKKWDPLKKETIPYYTKKFDEVVKANG